	Number: 09 545, 19 F	Processing D	ate:	7/19/02
ërial i	Number: 091393, 111F	ed by:	7	(STIC sta
	Changed a life from hor-voor to voor			
] .	Changed the margins in cases where the sequence text was "wrapped" so	AL O LIBITIES		
	Edited a format error in the Current Application Data section, specifically:			PH
	Edited the Current Application Data section with the actual current number. applicant was the prior application data; or other	The number	inputted	by the
]	Added the mandatory heading and subheadings for *Current Application Da	ta".	•	_
] .	Edited the "Number of Sequences" field. The applicant spelled out a number	er instead of	usin g an	integer.
	Changed the spelling of a mandatory field (the headings or subheadings), sp	pecifically:		·
	Corrected the SEQ ID NO when obviously incorrect. The sequence number	s that were e	dited we	re:
]	Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID	NO's edited:		• •
]	Corrected subheading placement. All responses must be on the same line a applicant placed a response below the subheading, this was moved to its ap	s each subh propriate pla	eading. I ce.	f the
]	Inserted colons after headings/subheadings. Headings edited included:	·		
]	Deleted extra, invalid, headings used by an applicant, specifically:			
]	Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secreta☐ page numbers throughout text; ☐ other invalid text, such as	ury initials/file	name at	end of file
	Inserted mandatory headings, specifically:	-		
	Corrected an obvious error in the response, specifically:	F	RECI	EIVE
]	Edited identifiers where upper case is used but lower case is required, or vio	oe versa. TEC		4 2002 ER 1600/2
	Corrected an error in the Number of Sequences field, specifically:			
·	A "Hard Page Break" code was inserted by the applicant. All occurrences h	•	eted.	
	Deleted ending stop codon in amino acid sequences and adjusted the "(A)L due to a Patentin bug). Sequences corrected:			
	Other: Aligned amino numbershy in Seq. 16	·	,·	
		· ·		
•	r: The above corrections must be communicated to the app			



1600

RAW SEQUENCE LISTING DATE: 07/19/2002 P. 6

PATENT APPLICATION: US/09/545,199F TIME: 13:33:09

Input Set : A:\PTO.DC.txt

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4 <110> APPLICANT: Lowery E., David
 5
         Fuller E., Troy
         Kennedy J., Michael
8 <120> TITLE OF INVENTION: Anti-Bacterial Vaccine Compositions
10 <130> FILE REFERENCE: 28341/6227.NCP
12 <140> CURRENT APPLICATION NUMBER: 09/545,199F
13 <141> CURRENT FILING DATE: 2000-04-06
15 <150> PRIOR APPLICATION NUMBER: 60/153,453
16 <151> PRIOR FILING DATE: 1999-09-10
18 <150> PRIOR APPLICATION NUMBER: 60/128,689
19 <151> PRIOR FILING DATE: 1999-04-09
21 <160> NUMBER OF SEQ ID NOS: 165
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26 <211> LENGTH: 1112
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32 <222> LOCATION: (210)..(1001)
34 <220> FEATURE:
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37 <220> FEATURE:
38 <221> NAME/KEY: misc_feature
39 <222> LOCATION: 1099
40 <223> OTHER INFORMATION: n = A or T or G or C
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44 <222> LOCATION: 1104
45 <223> OTHER INFORMATION: n = A or T or G or C
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50 acttgctttt aaactgttca attcaatgca ttttattgca ttttttgttg gatattttat 120
52 aacaatagtt ttaaacaata ttottooatt ttttataagt aagtacttaa atataaagca 180
54 ttttcataaa tatcaataaa ggattagtt atg gca gca gag ctt aca aca gcg
55
                                   Met Ala Ala Glu Leu Thr Thr Ala
60 gga tat att ggg cac cat tta gca ttc ttg aaa aca ggg gat tct ttc
                                                                      281
61 Gly Tyr Ile Gly His His Leu Ala Phe Leu Lys Thr Gly Asp Ser Phe
                           15
66 tgg cat gtt cat tta gat acc ctt cta ttt tca att att tca ggt gca
67 Trp His Val His Leu Asp Thr Leu Leu Phe Ser Ile Ile Ser Gly Ala
68
  25
                        30
```

RAW SEQUENCE LISTING DATE: 07/19/2002 PATENT APPLICATION: US/09/545,199F TIME: 13:33:09

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\07192002\I545199F.raw

70	att	ttt	ctt	ttt	gtt	ttt	tca	aaa	gtt	gca	aaa	aaa	gca	acg	ccg	ggt	377
71	Ile	Phe	Leu	Phe	Val	Phe	Ser	Lys	Val	Ala	Lys	Lys	Ala	Thr	Pro	Gly	
72					45					50					55		
													gtt				425
	Val	Pro	Ser	_	Met	Gln	Cys	Phe		Glu	Ile	Met	Val	-	\mathtt{Trp}	Ile	
76				60					65					70			
	-			-		_						-	cat	-	-		473
	Asp	GLŸ		Val	Lys	GIu	Asn		H1S	GTA	Pro	Arg	His	Ala	Val	GTA	
80	000	++>	75	++-	20+	a++	++~	80	+~~	~+ ·	++-	-++	85	a a +	a a t	2+0	E 2 1
			_					_		-			atg Met		-		521
84	PIO	90	ніа	neu	1111	TTE	95	Cys	11p	vaı	Pile	100	мес	ASII	нта	TTE	
	σat		atc	cca	αta	gat		cta	cct	caa	tta		cat	tta	+++	aat	569
													His				303
88	_	LCu	110	110	, aı	110	1 110	DCu	110		115	mu	1113	ЦСи	1110	120	
-		σаа	tac	t.t.a	aσa		at.t.	cca	aca	σċa		atc	agt	ααа	aca		617
										-	-		Ser				01.
92	_		_		125					130				1	135		
94	ggc	tta	tca	att	ggt	gtc	ttc	ttc	tta	att	att	ttc	tat	aca	atc	aaa	665
						_							Tyr				
96				140					145				_	150		_	
98	tca	aaa	ggt	atg	agt	ggc	ttt	gtt	aaa	gaa	tat	acg	ctt	cat	cct	ttt	713
99	Ser	Lys	Gly	Met	Ser	Gly	Phe	Val	Lys	Glu	Tyr	Thr	Leu	His	Pro	Phe	
100			155	5				160)				165	ı			
				_			_	_					_		_	aca	761
	Asn			Let	ı Leu	ıIl∈			. Asn	Leu	Ala			Ser	· Val	Thr	
104		170					175					180					
																atg	809
	ьеи 185		Ala	гга	Pro			ьeu	АТа	Pne			ı Pne	: СТУ	Asn	Met	
			aat		a++	190		a++		2++	195		+.	+ = 0	2+4	200 gca	857
											-	-	-		_	Ala	037
112	1 7 1	mu	CI	OIC	205		. 1110	. 110	. LCu	210		· val	. MCC	. 171	215		
	aat	aat	t.t.t	: аса			t.ca	ato	aat			ato	r cat	t.t.a		tgg	905
				-				-				_		_	_	Trp	202
116		-		220			•		225					230			
119	gct	att	ttc	cat	att	ctt	gtg	att	acc	tta	caa	gca	ttt	att	ttt	atg	953
120	Ala	Ile	Phe	His	: Ile	Leu	Val	Ile	Thr	Leu	Gln	Ala	Phe	Ile	Phe	Met	
121			235	i				240	ı				245				
																cac	1001
	Met			· Val	. Val	Tyr			Met	Gly	Tyr			Ala	Glu	His	•
125		250					255					260			•		
																acatta	
						ac a	acaa	tcat	c gc	atct	gnaa	ttn	ttct	tgc	t		1112
			EQ I														
			YPE:														
					Pas	teur	ella	mıı 1	todi	da							
			EQUE			CCUI	Ų. Lu			~u							
					_												

W-->

RAW SEQUENCE LISTING DATE: 07/19/2002
PATENT APPLICATION: US/09/545,199F TIME: 13:33:09

Input Set : A:\PTO.DC.txt

```
138 Met Ala Ala Glu Leu Thr Thr Ala Gly Tyr Ile Gly His His Leu Ala
139 1
141 Phe Leu Lys Thr Gly Asp Ser Phe Trp His Val His Leu Asp Thr Leu
                                      25
144 Leu Phe Ser Ile Ile Ser Gly Ala Ile Phe Leu Phe Val Phe Ser Lys
                                  40
147 Val Ala Lys Lys Ala Thr Pro Gly Val Pro Ser Lys Met Gln Cys Phe
         50
                             55
150 Val Glu Ile Met Val Asp Trp Ile Asp Gly Ile Val Lys Glu Asn Phe
                         70
                                              75
153 His Gly Pro Arg His Ala Val Gly Pro Leu Ala Leu Thr Ile Phe Cys
                                          90
156 Trp Val Phe Ile Met Asn Ala Ile Asp Leu Ile Pro Val Asp Phe Leu
157
                100
                                     105
                                                         110
159 Pro Gln Leu Ala His Leu Phe Gly Ile Glu Tyr Leu Arg Ala Val Pro
            115
                                120
                                                     125
162 Thr Ala Asp Ile Ser Gly Thr Leu Gly Leu Ser Ile Gly Val Phe Phe
                            135
165 Leu Ile Ile Phe Tyr Thr Ile Lys Ser Lys Gly Met Ser Gly Phe Val
                        150
                                             155
168 Lys Glu Tyr Thr Leu His Pro Phe Asn His Pro Leu Leu Ile Pro Val
                    165
                                         170
171 Asn Leu Ala Leu Glu Ser Val Thr Leu Leu Ala Lys Pro Val Ser Leu
                                     185
174 Ala Phe Arg Leu Phe Gly Asn Met Tyr Ala Gly Glu Leu Ile Phe Ile
175
            195
                                200
177 Leu Ile Ala Val Met Tyr Met Ala Asn Asn Phe Ala Leu Asn Ser Met
178
                            215
                                                 220
180 Gly Ile Phe Met His Leu Ala Trp Ala Ile Phe His Ile Leu Val Ile
181 225
                        230
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183 Thr Leu Gln Ala Phe Ile Phe Met Met Leu Thr Val Val Tyr Leu Ser
                    245
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197 <222> LOCATION: (364)..(1230)
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205 acatggtcaa aaagtaactg aattattgaa acaaaaccaa tactctccgt tatctgtagc 120
207 acaacaagca ttagtgttat ttgcagtaga gtttggttac ttagaagaag tggacttaga 180
209 tcgtattggt tcatttgaat cagcactttt agagtatgct aaccataact atgctgattt 240
211 tatgcgtgag ttaacccaat ctggcaatta caatgatgaa attaaagagt cattaaaagg 300
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RAW SEQUENCE LISTING DATE: 07/19/2002 PATENT APPLICATION: US/09/545,199F TIME: 13:33:09

Input Set : A:\PTO.DC.txt

213	cati	tttg	gat a	agcti	tcaa	ag ca	aaac	agtg	c gt	ggtaa	agtt	aaca	actt	taa a	atgga	agagac	360
			_	-		āaa					-						408
216		_	_		_	Lys			_				,	-	_		
217		1		1		5					10					15	
	aσt	aca	caa	aaa	att	act	aaa	aca	atσ	σаа		att	act	acc	tca		456
	_					Thr			-	-	_	-	_	-	_		150
221	DCL	1111	Q111	2,5	20	1111	2,5	2114	1100	25	1100	VUI	n.i.u	niu	30	цу	
	ata	cat	222	200		gaa	000	ata	tat		+ 02	aaa	aat	+ = +		~ a a	504
	_	_		_		Glu	-	_				_				_	304
225	Meć	ALG	шys	35	GIII	GIU	ALY	Mec	40	ser	ser	Ary	PIO	45	Ser	GIU	
	202	2+2	aa+		a+a	a++	200	000		+ 00	222	~~~	200		aat	taa	552
						att											332
	THE	TTG	_	ASII	Val	Ile	ser		Val	ser	гаг	Ald		TTG	СТА	TÄL	
229			50					55					60				C00
						gtg											600
	гàг		Pro	Pne	ьeu	Val		Arg	GIU	vaı	ьуs		vaı	GIY	мет	TTE	
233		65					70					75					
	-				_	cgt			_							-	648
		Val	Ser	Thr	Asp	Arg	GLY	Leu	Cys	Gly		Leu	Asn	Val	Asn		
237	80				•	85					90					95	
						aat											696
240	Phe	Lys	Thr	Val	Leu	Asn	Glu	Met	Lys	Glu	\mathtt{Trp}	Lys	Glu	Lys	Asp	Val	
241					100					105					110		
		_		_	_	tta											744
244	Ser	Val	Gln	Leu	Ser	Leu	Ile	Gly	Ser	Lys	Ser	Ile	Asn	Phe	Phe	Gln	
245				115					120					125			
247	tct	ttg	gga	att	aaa	att	tta	acc	caa	gat	tca	ggt	att	ggt	gat	act	792
248	Ser	Leu	Gly	Ile	Lys	Ile	Leu	Thr	Gln	Asp	Ser	Gly	Ile	Gly	Asp	Thr	
249			130					135					140				
251	ccc	tct	gtt	gag	cag	tta	att	ggt	tca	gtc	aat	tct	atg	att	gat	gct	840
252	Pro	Ser	Val	Glu	Gln	Leu	Ile	Gly	Ser	Val	Asn	Ser	Met	Ile	Asp	Ala	
253		145					150					155					
255	tat	aaa	aaa	ggg	gaa	gta	gat	gtt	gtg	tat	tta	gtt	tat	aac	aaa	ttt	888
						Val	_	-	_			_					
257	_	_	_	_		165	-			_	170		-		_	175	
259	att	aac	acq	atq	tcq	caa	aaq	cca	qta	ttq	qaa	aaa	tta	att	cca	tta	936
			_	_	_	Gln	_		_	-	-						
261			•		180		•			185		-			190		
263	cca	gaa	tta	gat	aat	gat	qaa	tta	aac	qaa	aga	aaa	caa	qtt		gat	984
						Asp	-			-	-			-	-	-	
265				195					200		5			205			
	tat	att	tac		cct	gat	aca	aaa		tta	tta	σat	aat		ttα	att	1032
																Val.	
269	-1-		210	014		ПОР		215	,	200			220	204	204	, 41	
	cat	tat		αaa	tct	cag	att		caa	αca	αca	αtt		aac	ctt	act	1080
						Gln											1000
273	**** 9	225	Leu	JIU	JCI	O T II	230	- 1 -	· 111	ALU	ALU	235	JIU	41311	Leu	u	
•	tct		caa	acc	act	cga		atc	acc	ato	222		aca	aca	a+	aac	1128
						Arg											1120
277		JIU	9111	AIG	AIG	245	ne c	v a r	ATG	MEL	250	пта	та	TIIT	vah	255	
411	240					443					400					233	

RAW SEQUENCE LISTING DATE: 07/19/2002 PATENT APPLICATION: US/09/545,199F TIME: 13:33:09

Input Set : $A:\PTO.DC.txt$

280	gca ggt Ala Gly			Ile					Leu					Ala		1176
281	caa gca	a a t	2++	260		422	++=	22+	265	2++	a++	aaa	aat	270	aca	1224
	Gln Ala	_				-			-		_	-		_	-	. 1224
285	V		275					280			,		285			
287	gca att	taad	caaat	tag a	agga [.]	toggi	ta at	tggca	aact	g ġaa	aaaa	ttgt	aca	aatca	atc	1280
	Ala Ile															
	ggtgcgg															
	aatgttg				-	_	_							-	_	
	tgtatcg						-								-	
	aacccaa gaaccaa															
	ccaccaa	_				-		-	-	-						
	atcgact	-	_	_					-		_					
	gtcggta															
	tactctg															
	atgaaag															
310	ccaggta	acc g	gttta	acgt	gt g	gcati	taaca	a ggo	ctta	acta	tgg	cggaa	aaa .	attc	gtgat	1940
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	5 <211> LENGTH: 289															
	<212> TYPE: PRT															
	<pre>< <213> ORGANISM: Pasteurella multocida</pre>															
	<400> S Met Ala				C111	т1.	7 22	шhж	T ***	т1о	A 1 -	Cor	wa 1	T 1/4 C	Cor	
321	1	. СТУ	Ата	шуS 5	GIU	116	AIG	1111	10	ire	нта	ser	vaı	15	261	
	Thr Gln	Lvs	Tle	-	Lvs	Ala	Met	Glu		Va l	Ala	Ala	Ser		Met.	
325	1111 011	270	20	****	270		1100	25	1100	, 42			30	270		
327	Arg Lys	Thr	Gln	Glu	Arg	Met	Ser	Ser	Ser	Arg	Pro	Tyr	Ser	Glu	Thr	
328		35					40					45				
330	Ile Arg	Asn	Val	Ile	Ser	His	Val	Ser	Lys	Ala	Thr	Ile	Gly	Tyr	Lys	
331	50					55					60				_	
	His Pro	Phe	Leu	Val	_	Arg	Glu	Val	Lys	_	Val	Gly	Met	Ile		
334	65	m1		3	70	T	G	01	a1	75	3	77-7	3	T	80 Dh.a	
	Val Ser	Thr	Asp	Arg 85	GTA	Leu	Cys	GTA	90 GTA	Leu	Asn	vaı	Asn	ьеи 95	Pne	
337	Lys Thr	Val	T.611		Glu	Mot	T.vc	Glu		Lve	Glu	T.v.c	Δsn		Ser	
340	пуз тиг	Vai	100	ASII	Giu	Mec	цуз	105	115	цуз	Giu	цуз	110	Val	Der	
	Val Gln	Leu		Leu	Ile	Glv	Ser		Ser	Ile	Asn	Phe		Gln	Ser	
343		115				1	120	-1-				125				
	Leu Gly	Ile	Lys	Ile	Leu	Thr	Gln	Asp	Ser	Gly	Ile	Gly	Asp	Thr	Pro	
346	130					135					140					
348	Ser Val	Glu	Gln	Leu	Ile	Gly	Ser	Val	Asn	Ser	Met	Ile	Asp	Ala		
	145				150					155					160	
	Lys Lys	Gly	Glu		Asp	Val	Val	Tyr		Val	Tyr	Asn	Lys		Ile	
352	Non mt	Wet	C	165	T	Drad	77- T	T ~··	170	T	т с	т1 -	Dros	175	Dro	
354 355	Asn Thr	мес	180	GIII	газ	PLO	val	185	GIU	пÄg	ьeu	тте	190	ьeu	PIO	
درر			100					103					130			

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 07/19/2002 PATENT APPLICATION: US/09/545,199F TIME: 13:33:10

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\07192002\I545199F.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the $\langle 220 \rangle$ to $\langle 223 \rangle$ fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1099,1104 Seq#:27; N Pos. 375,399,423,453 Seq#:27; Xaa Pos. 125,133,141,151 Seq#:28; Xaa Pos. 125,133,141,151 Seq#:35; N Pos. 981,1000,1129,1134,1144,1423,1665,1667 Seq#:35; Xaa Pos. 219,226,269,270,274 Seq#:36; Xaa Pos. 219,226,269,270,274 Seq#:37; N Pos. 98,296,302,928,1007,1740,1808,1816,1820 Seq#:37; Xaa Pos. 33,99,101 Seq#:38; Xaa Pos. 33,99,101 Seq#:39; N Pos. 1839 Seq#:47; N Pos. 3084 Seq#:72; N Pos. 452 Seq#:90; N Pos. 25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63 Seq#:90; N Pos. 65,67,69,71,73,75,77,79,81,83,85,87,89,91,93 Seq#:102; N Pos. 4894 Seq#:102; Xaa Pos. 1632 Seq#:103; Xaa Pos. 1632

VERIFICATION SUMMARY PATENT APPLICATION: US/09/545,199F DATE: 07/19/2002 TIME: 13:33:10

Input Set : A:\PTO.DC.txt

```
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:1061
L:3841 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:337
L:3842 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:385
L:3845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:385
L:3846 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:433 L:3849 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:433
L:3850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:481
L:3981\ M:341\ W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:112
L:3984 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:128
L:3987 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:144
L:5416 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:975
L:5417 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1023 L:5428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1119
L:5429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1167
L:5444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1390
L:5452 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:1630
L:5526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:208
L:5529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:224
L:5535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:256
L:5538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:272
L:5612 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:97
L:5613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:145
L:5628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:289
L:5629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:337
L:5661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:889
L:5663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:949
L:5689 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:1729
L:5691 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:1789
L:5728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:32
L:5740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:96
L:5858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:1806
L:6790 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:3076
L:9359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:72 after pos.:420
L:11243 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0
L:11245 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:60
L:11978 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:4848
L:11979 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:102 after pos.:4896
L:12306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:103 after pos.:1616
```

STATISTICS SUMMARY

DATE: 07/19/2002

PATENT APPLICATION: US/09/545,199F

TIME: 13:33:10

Input Set : A:\PTO.DC.txt

Output Set: N:\CRF3\07192002\I545199F.raw

Application Serial Number: US/09/545,199F

Alpha or Numeric: Numeric

Application Class:

Application File Date: 04-06-2000

Art Unit: 1600

Software Application: PatentIN2.0 Total Number of Sequences: 165

Total Nucleotides: 169095 Total Amino Acids: 24948

Number of Errors: 0 Number of Warnings: 38 Number of Corrections: 0

MESSAGE SUMMARY

341 W: 38 ((46) "n" or "Xaa" used)

E- Edited